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10/812,018	03/30/2004	Von Friedrich C. Paterro		2793
7590 02/13/2007 Von Friedrich C. Paterro 23-B Makati Tuscany 6751 Ayala Avenue Makati City, ZC-1226			EXAMINER	
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PHILIPPINES			3644	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)		
	10/812,018	PATERRO, VON FRIEDRICH C.		
Office Action Summary	Examiner	Art Unit		
	Stephen A. Holzen	3644		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1)⊠ Responsive to communication(s) filed on <u>09 Not</u> 2a)□ This action is FINAL . 2b)⊠ This 3)□ Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ⊠ Claim(s) 1-3,5-24 and 26-31 is/are pending in the day of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-3, 5-24, 26-31 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required`if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate		

Application/Control Number: 10/812,018 Page 2

Art Unit: 3644

DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments with respect to the rejection(s) of claim(s) have been fully considered and are persuasive.
 - a. The examiner withdraws the 35 USC 101 rejection in light of applicant's argument that the present invention has at least one utility (reducing aircraft drag).
 - b. The examiner withdraws the 35 USC 102 and 103 rejections in light of applicant's amendments.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 6, 10, 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over 433 Blackburn et al (5,797,563) in view of Nosenchuck (5,964,453).

Blackburn et al disclose a flying craft (20), comprising: an exterior hull (30) defining an exterior craft surface of a predetermined surface area at least one propulsion source (112); and an electrical generator (14),

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Art Unit: 3644

wherein the hull includes a plurality of sectionalized electromagnetic plates (Figure 13, illustrates "plates" that contain coiled wires #96) that produce a magnetic field, see also Col. 16, lines 36-49),

the electromagnetic core operatively coupled to the electrical generator (via #95) to provide an electromagnetic force to each plate of a given magnitude and polarity (#14), the electromagnetic plates collectively forming a substantial portion of the exterior craft surface (see Figure 12) to provide a controllable electromagnetic field around at least portions of the hull to magnetically curve the space adjacent the hull (see Figures 2, 3, and 12). Figure 13 illustrates sectionalized electromagnetic plates on the upper and lower hulls while Figure 3 illustrates a saucer shape, as well as the collective polarity of the upper and lower surfaces are the same, wherein the craft is submersible water craft (see Col. 5, lines 51-54).

Blackburn does not disclose that the "plates" in figure 13 are each independently changeable North and South Polarity.

Nosenchuck teaches a staggered actuation of electromagnetically tiles for boundary layer control. Nosenchuck uses a plurality of two-dimensional array of control region tiles (405) formed by separately actuable electrodes (407). Nosechuck alters the polarity of the electromagnetic tiles to induce laminar boundary layer flows.

It would have been obvious to one having ordinary skill in the art to replace the large plates of Blackburn (as illustrated in Figure 13) with the individually actuated tiles (406, 407) of Nosenchuck for the purpose of increasing boundary layer controls.

Art Unit: 3644

4. Claims 1, 2, 3, 5-7, 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over 423 Cox (4,891,600) in view of Nosenchuck (5,964,453).

Cox discloses a craft (see Figure 38), comprising: an exterior hull (see Figure 38) defining an exterior craft surface of a predetermined surface area' at least one propulsion source (914 is a generator that creates electro-dynamic behavior; it is a source of propulsion); and an electrical generator (912), wherein the hull includes a plurality of sectionalized electromagnetic plates (904, 906), each of the plurality of electromagnetic plates including an outer wall and an inner wall (Figure 38) fixedly provided on an electromagnetic core (910), the electromagnetic core including at least one turn of coil (see Figure 38, #910 and #912) operatively coupled to the electrical generator to provide an electromagnetic force to each plate of a given magnitude and polarity, the electromagnetic plates collectively forming a substantial portion of the exterior craft surface (see Figure 38) to provide a controllable electromagnetic field around at least portions of the hull to magnetically curve the space adjacent the hull, wherein the electromagnetic plates extend around the periphery of the hull of the craft (see Figure 38, #904 and 906), wherein the electromagnetic plates extend radially around the hull of the craft (see Figure 38, #904 and 906), wherein the craft is a flying craft (see Figure 38), wherein the flying craft has a saucer shape with an upper hull portion and a lower hull portion (see Figure 38), wherein the electrical generator includes at least one high frequency oscillator (860). Cox teaches plates (904) that are used to generate a polarization current body force acting vertically. The plates cover the full diameter of the vehicle and store electrical energy, which is cyclically converted into magnetic field energy of the coil (900).

Art Unit: 3644

between

Cox does not disclose that the plates are each independently changeable North and South Polarity.

Nosenchuck teaches a staggered actuation of electromagnetically tiles for boundary layer control. Nosenchuck uses a plurality of two-dimensional array of control region tiles (405) formed by separately actuable electrodes (407). Nosechuck alters the polarity of the electromagnetic tiles to induce laminar boundary layer flows.

It would have been obvious to one having ordinary skill in the art to replace the large plates of Cox (as illustrated in Figure 38) with the individually actuated tiles (406, 407) of Nosenchuck for the purpose of increasing boundary layer controls.

Re – Claim 5: Electromagnetic plates are inherently capable of being adjusted to the same polarity as the Earth's closest magnetic pole.

Claims 8, 9, 14, 16-19, 21, 22, 27 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable of Cox as applied above in view of Paterro (6,367,739). Cox discloses every aspect of the present invention except where the aircraft has the propulsion system described in these claims. Paterro has disclosed that the claimed propulsion system is well known in the art. (Note: The applicant's own patent is being used against him. Patent '739 published more than 1 year prior to the filing the current application, and therefor is not disqualified under 103(c).) Paterro ('739) discloses every aspect of claims 8, 9, 14 and 31. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the propulsion system of Paterro in the aircraft of Cox for the purpose of providing a redundant propulsion system to prevent the aircraft from crash landing in the case where the electromagnetic system fails.

Page 6

Art Unit: 3644

Inherently the exhaust system is "compound" in that it consists of two or more substances, ingredients, elements, or parts

Re – Claim 17, 18, 19, and 22: Cox discloses every aspect of the electromagnetic propulsion system as claimed. Cox discloses every aspect of the present invention except where the aircraft has the propulsion system described in these claims. As discussed above:

Nosenchuck teaches a staggered actuation of electromagnetically tiles for boundary layer control. Nosenchuck uses a plurality of two-dimensional array of control region tiles (405) formed by separately actuable electrodes (407). Nosechuck alters the polarity of the electromagnetic tiles to induce laminar boundary layer flows.

Paterro has disclosed that the claimed propulsion system (including the quantum jets, the number of jets, their orientation, and location) is well known in the art. (Note: The applicant's own patent is being used against him. Patent '739 published over 1 year prior to the filing the current application, and therefor is not disqualified under 103(c).) Paterro ('739) discloses every aspect of claim 17 and it would have been obvious to one having ordinary skill in the art at the time the invention was made to use the propulsion system of Paterro in the aircraft of Cox for the purpose of providing a redundant propulsion system to prevent the aircraft from crash landing in the case where the electromagnetic system fails.

Re – Claim 16: Cox's electromagnetic plates are inherently capable of being adjusted to the same polarity as the Earth's closest magnetic pole

Re – Claim 21: wherein a collective exterior surface area of the electromagnetic plates is about one half of the surface area of the hull (see Figure 13 to Cox, the bottom surface is not covered by plates),

Art Unit: 3644

Re – Claim 27 (which was to be dependent from claim 17): Paterro discloses that non-fissile fuel engines are well known in the art. (see Col. 3, lines 33-34).

Page 7

- 6. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cox as applied to claim 19above, and further in view of Walmsley (2003/0127559). Cox discloses that it is known to have electromagnetic plates on the upper hull portion extending from substantially the pinnacle of the hull to an outer periphery of the upper hull surface. Cox does not disclose a cockpit at the top of the hull. Walmsley discloses that it is known in the art to adapt a VTOL aircraft to have a flight deck centrally on the upper hull portion above a turbine (7). (see Figure 1). It would have been obvious to one having ordinary skill in the art to include the flight deck for the purpose of controlling the aircraft manually. Further it would have been obvious to locate the flight deck at the central top of the hull for the purpose of symmetry and balance.
- 7. Claims 12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cox in view of Paterro (as applied to claim 1) and further in view of ordinary skill in the art. Cox in view of Paterro do not disclose the location nor the shape of the high frequency oscillator. However it would have been obvious to one having ordinary skill in the art at the time the invention was made to mount the oscillator in the form of a ring or alternatively between adjacent electromagnetic plates since it has been held that merely rearranging of the working parts of a device involves only routine skill in the art. In re Einstein 8 USPQ 167.

Art Unit: 3644

- 8. Claims 23 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cox in view of Paterro and further in view of ordinary skill in the art. Cox in view of Paterro do not disclose the location nor the shape of the high frequency oscillator. However it would have been obvious to one having ordinary skill in the art at the time the invention was made to mount the oscillator in the form of a ring or alternatively between adjacent electromagnetic plates since it has been held that merely rearranging of the working parts of a device involves only routine skill in the art. In re Einstein 8 USPQ 167.
- 9. Claim 28 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cox in view of Nosenchuck in view of Paterro and further in view of Walmsley.

Cox discloses every aspect of the claimed electromagnetic system (as discussed above).

Nosenchuck teaches a staggered actuation of electromagnetically tiles for boundary layer control. Nosenchuck uses a plurality of two-dimensional array of control region tiles (405) formed by separately actuable electrodes (407). Nosechuck alters the polarity of the electromagnetic tiles to induce laminar boundary layer flows.

It would have been obvious to one having ordinary skill in the art to replace the large plates of Cox (as illustrated in Figure 38) with the individually actuated tiles (406, 407) of Nosenchuck for the purpose of increasing boundary layer controls.

Paterro discloses every aspect of the claimed fuselage shape and propulsion source in his own patent: US 6,367,739.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the propulsion system of Paterro in the aircraft of Cox for the purpose

Art Unit: 3644

of providing a redundant propulsion system to prevent the aircraft from crash landing in the case where the electromagnetic system fails.

Cox further discloses that it is known to have electromagnetic plates on the upper hull portion extending from substantially the pinnacle of the hull to an outer periphery of the upper hull surface.

Cox does not disclose a cockpit at the top of the hull.

Walmsley discloses that it is known in the art to adapt a VTOL aircraft to have a flight deck centrally on the upper hull portion above a turbine (7). (see Figure 1). It would have been obvious to one having ordinary skill in the art to include the flight deck for the purpose of controlling the aircraft manually. Further it would have been obvious to locate the flight deck at the central top of the hull for the purpose of symmetry and balance.

Both Cox and Paterro disclose a frequency oscillator however do not disclose the location nor the shape of the high frequency oscillator. However it would have been obvious to one having ordinary skill in the art at the time the invention was made to mount the oscillator in the form of a ring or alternatively between adjacent electromagnetic plates since it has been held that merely rearranging of the working parts of a device involves only routine skill in the art. In re Einstein 8 USPQ 167.

10. Claims 29 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cox in view of Paterro.

Cox discloses a craft (see Figure 38), comprising: an exterior hull (see Figure 38) defining an exterior craft surface of a predetermined surface area' at least one propulsion source

Art Unit: 3644

(914 is a generator that creates electro-dynamic behavior; it is a source of propulsion); and an electrical generator (912), wherein the hull includes a plurality of sectionalized electromagnetic plates (904, 906), each of the plurality of electromagnetic plates including an outer wall and an inner wall (Figure 38) fixedly provided on an electromagnetic core (910), the electromagnetic core including at least one turn of coil (see Figure 38, #910 and #912) operatively coupled to the electrical generator to provide an electromagnetic force to each plate of a given magnitude and polarity, the electromagnetic plates collectively forming a substantial portion of the exterior craft surface (see Figure 38) to provide a controllable electromagnetic field around at least portions of the hull to magnetically curve the space adjacent the hull.

Cox does not disclose that the plates are each independently changeable North and South Polarity (i.e. does not disclose magnetically altering the flow of particles in the vicinity of the hull).

Nosenchuck teaches a staggered actuation of electromagnetically tiles for boundary layer control. Nosenchuck uses a plurality of two-dimensional array of control region tiles (405) formed by separately actuable electrodes (407). Nosechuck alters the polarity of the electromagnetic tiles to induce laminar boundary layer flows.

It would have been obvious to one having ordinary skill in the art to replace the large plates of Cox (as illustrated in Figure 38) with the individually actuated tiles (406, 407) of Nosenchuck for the purpose of increasing boundary layer controls.

Both Cox and Paterro disclose a frequency oscillator however do not disclose the location nor the shape of the high frequency oscillator. However it would have been obvious to one having ordinary skill in the art at the time the invention was made to mount the oscillator in the

Art Unit: 3644

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Page 11

form of a ring or alternatively between adjacent electromagnetic plates since it has been held that merely rearranging of the working parts of a device involves only routine skill in the art. In re Einstein 8 USPQ 167.

Paterro further discloses a jet that is inherently a sealed quantum jet. The jet is inherently "sealed" in as much as it would not be energy efficient to have an unsealed jet engine.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen A. Holzen whose telephone number is 571-272-6903. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Teri Luu can be reached on 571-272-7045. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Stephentles 1/23/07